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(54) THERMO-ELEMENT SHEET

(57)Abstract:

PURPOSE: To prevent heat in a clearance of a thermo-electric semiconductor from being lost by convection, conduction and radiating by forming a thermo-element by connecting a unit structure wherein one end of a pair of thermo-electric semiconductor of a specified heat flow length by an electrode by a connection electrode and by laminating a sheet layer with the thermo-element interposed between insulation sheet materials.

CONSTITUTION: A plurality of connection electrodes 3 are formed on a surface of a sheet material 2 at specified intervals by spray print by a mask and then stabilized by sintering. After clearances 7, 8 of a thermo-electric semiconductor wherein a pair of thermo-electric semiconductor 5, 6 of p-type and n-type with a specified heat flow length are formed by a similar method are charged with a thermal insulation material 9 of small heat conductivity, an electrode 4 is formed by a similar method to connect an upper edge face of a pair of thermo-electric semiconductors 5, 6 of p-type and n-type to form a unit sheet layer 10. After a plurality of unit sheet layers 10 are laminated to a shape of a heat conduction part such as a plane and connected to the outside of the electrode 4, they are dried, sintered and stabilized to be formed to a thermo-element sheet 11.

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